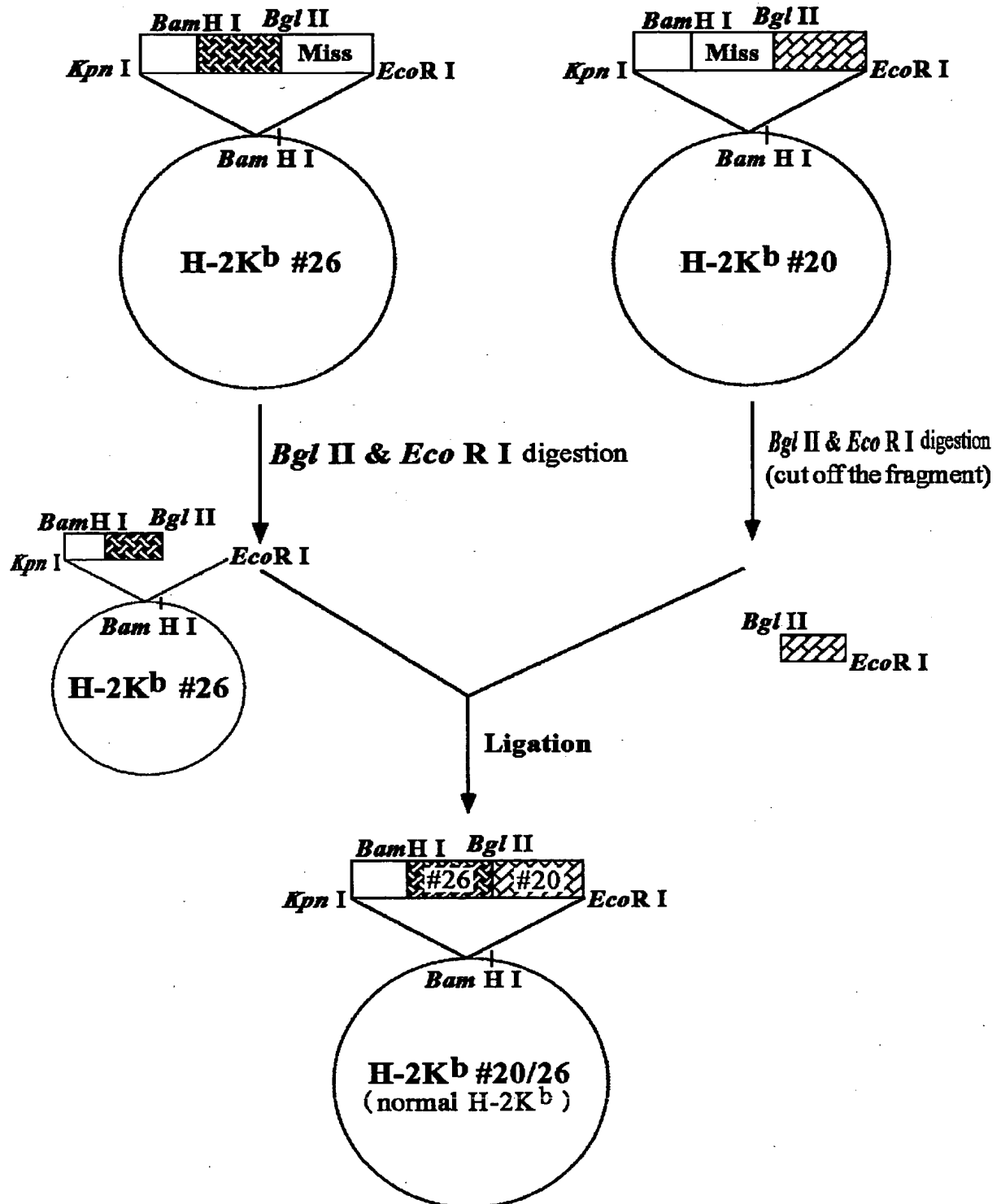


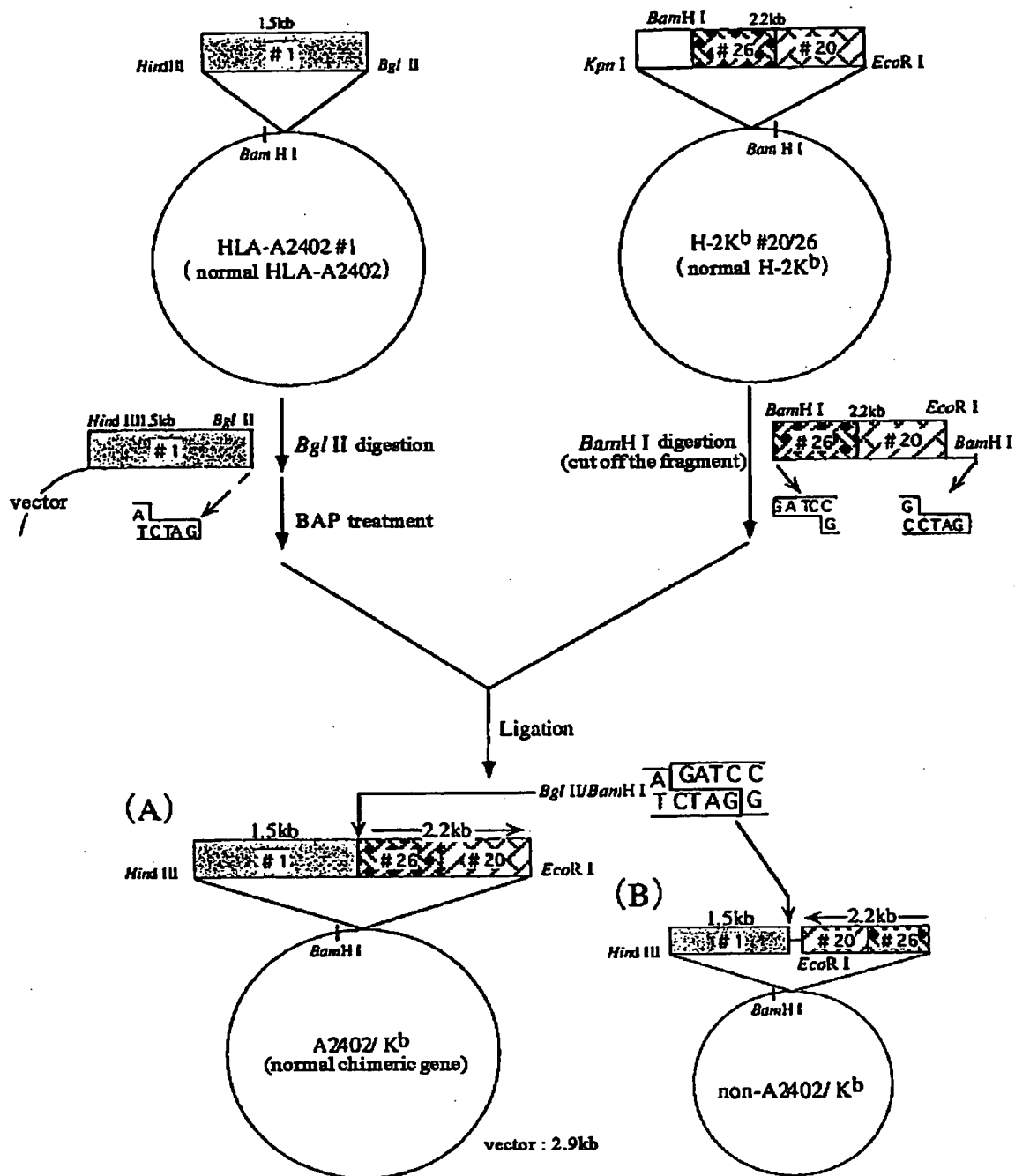
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Fig. 1



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Fig. 2



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Fig. 3

HLA-A2402/Rb genome HLA-A2402/Rb cDNA	100	AAGCTTACTC TCTGGCACC AACTCATCG GATGATTTT CTCTAGAG AGTCAGGTG GACAGTTAG GAGTGGAGT CAGGAGTTC AGTTACAGGA
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	200	CAGAGATTAC GGGATGAAA GTGAAGAG AGGACGGGG CCATGCGGA GGGTTCTCC CTGTTCCTC AGACAGTCT TGGGCCAAGA TTCAGGAGA
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	300	CATTGAGACA GAGGCTTGG CACAGAGCA GAGGGGTGAG GGCAGTCC CAGGGCCCCA GCGGTGGCTC TCAGGGTCTC AGGCCCCGAA GCGGGTGTAT
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	400	GGATTGGGGA GTCCAGCCT TGGGATTC CCACCTCGC AGTTCTTTT CTCCCTCTCC CAACCTATGT AGGGTCTCTC TTCTTGATA CTCACGACG
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	500	GGACCCAGTT CTCACCTCCA TTGGGTGTG GGTTCACGA GAAGCAATC AGTGTGTGG CCGTCGCTGT TCTAAGTCC GCACGCACCC ACCGGGACTC
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	600	AGATTCTCC CAGACGCCA GATGGCGT CATGGCGCC CGAACCTCG TCTCTCTACT CTGGGGGCC CTGGCCCTGA CCCAGACCTG GGCAGTTGAG
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	73	ATGGCGT CATGGCGCC CGAACCTCG TCTCTCTACT CTGGGGGCC CTGGCCCTGA CCCAGACCTG GGCAG
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	700	TCGGGGTGG GAGGGAAC GGCCTCTGG GGGAGACA AGGGGCCGC CTGGCGGGG GCACAGACC GCGAGCCGC GCGGGAGGA GGGTCGGGG
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	73	
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	800	GGTCTCAGC ACTCTCTGC CCCAGCTCC CACTCATA GGTATCTC CACATCGTG TCCTGGGCG GCGCGGCGG GCGCGGCTTC ATCGCGTGG
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	148	GCCTC CACTCCTGA GGTATCTC CACATCGTG TCCTGGGCG GCGCGGCGG GCGCGGCTTC ATCGCGTGG
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	900	GCTAAGTGA CGACACGAG TTGTGCGGT TCGACAGCA GCGCGGAGC CAGAGGATG AGCGGGGGC GCGGTGGATA GAGCAGGAG GCGCGGAGTA
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	248	GCTAAGTGA CGACACGAG TTGTGCGGT TCGACAGCA GCGCGGAGC CAGAGGATG AGCGGGGGC GCGGTGGATA GAGCAGGAG GCGCGGAGTA
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	1000	TTGGAGGAG GAGCAGGGA AGTGAAGC CCACTCAG ACTGACGAG AGACCTGG GATCGGCTC GCTACTACA ACCAGAGA GCGCGTTGAG
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	343	TTGGAGGAG GAGCAGGGA AGTGAAGC CCACTCAG ACTGACGAG AGACCTGG GATCGGCTC GCTACTACA ACCAGAGA GCGCGTTGAG
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	1100	TGACCCCGGC CCGGGGCGA GGTACGACC CTTATCCC CAGGAGCG GCGGGTGGC CACAGTCTC GGGTCCAGA TCCACCCCGA AGCCGCGGA
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	343	
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	1200	CCCGAGACC CTTGCCCGG GAGAGGCCA GGGGCTTAA CCGGTTTCA TTTCAGTTT AGGCCAATAA TCCCCCGGG TTGGTGGGG CCGGGCGGG
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	343	
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	1300	CTCGGGGAC TGGGTGACC GCGGGTGG GGCAGGTT TCACACCTC CAGATGATG TTGGGTGCA GGTGGGTGG GACGGGCTC TCCTCCCGG
HLA-A2402/Rb genome HLA-A2402/Rb cDNA	407	GTTC TCACACCTC CAGATGATG TTGGGTGCA GGTGGGTGG GACGGGCTC TCCTCCCGG

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Fig. 4

HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	GTACACACAG TACGCTACG AGGCGAGGA TTACATGCG CTGAAGAGG ACTTGCGCTC TTGGACCGCG GGGACATGG GGGCTCAGAT CACCAAGCG GTACACACAG TACGCTACG AGGCGAGGA TTACATGCG CTGAAGAGG ACTTGCGCTC TTGGACCGCG GGGACATGG GGGCTCAGAT CACCAAGCG	1400 507
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	AAGTGGAGG GGGCGCATGT GGGGAGCAG CAGAGAGCCT ACCTGGAGG CAGTGGGCTC GAGGAGGCTC GAGAGAGCGG AAGGAGACCG AAGTGGAGG GGGCGCATGT GGGGAGCAG CAGAGAGCCT ACCTGGAGG CAGTGGGCTC GAGGAGGCTC GAGAGAGCGG AAGGAGACCG	1500 607
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	TGCAGCGGAC GGTACACAG GGCACAGGCG CGCTACTCTG ATGCGCTGTA GATCTGTGT GACACACCTG TACCTTGTC CCAGAGTCA GGGCTGGGA TGCAGCGGAC GGTACACAG GGCACAGGCG CGCTACTCTG ATGCGCTGTA GATCTGTGT GACACACCTG TACCTTGTC CCAGAGTCA GGGCTGGGA	1600 619
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	GTCAATTTCT CTGGCTACAG ACITAGTGT GGTCTGTAC TTGGACTGAC AGTTAATGTT GGTACAGCAAG GTGACTACAA TGGTTGAGTC TCATGTGTGT GTCAATTTCT CTGGCTACAG ACITAGTGT GGTCTGTAC TTGGACTGAC AGTTAATGTT GGTACAGCAAG GTGACTACAA TGGTTGAGTC TCATGTGTGT	1700 619
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	CACCTTCAG GATCAATACAG CCTAATTTT AATATGAAT CAAACACATA TTAATTAAT TATTTTCAT TCCCTCTCTC ATTCTTTCAC TACCTCTCTC CACCTTCAG GATCAATACAG CCTAATTTT AATATGAAT CAAACACATA TTAATTAAT TATTTTCAT TCCCTCTCTC ATTCTTTCAC TACCTCTCTC	1800 619
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	ATGCTATTGA ACAATACATA AGGATGGCCA TGTTTACCA ATGGCTCATG TGGATTCCT CTATGCTTCT GAGTCCCAAA AGAATATGT GAGTCTGTGT ATGCTATTGA ACAATACATA AGGATGGCCA TGTTTACCA ATGGCTCATG TGGATTCCT CTATGCTTCT GAGTCCCAAA AGAATATGT GAGTCTGTGT	1900 619
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	CTGAGGGGAC CAGCTCTGCT TTGTGTACT AGTGGATCA CAGTTGAAT GTCAACAGA CACATGTTC ACTGTATCA TTGATTTAAC TGAATCTGTG CTGAGGGGAC CAGCTCTGCT TTGTGTACT AGTGGATCA CAGTTGAAT GTCAACAGA CACATGTTC ACTGTATCA TTGATTTAAC TGAATCTGTG	2000 619
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	GTAGATTTCA GTTGTCTTG TTAATGTGT GATTTCTTAA ATCTTCACA CAGATTCCTC AAGGCGCAT GTGACCATC ACGAGACCC TGAAGATAA GTAGATTTCA GTTGTCTTG TTAATGTGT GATTTCTTAA ATCTTCACA CAGATTCCTC AAGGCGCAT GTGACCATC ACGAGACCC TGAAGATAA	2100 666
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	GTACCTCTGA GTTGTCTTG CTTGGGCTTC TACCTCTCTG ACATCACCT GACCTGGGAG TTGATGAGG AGGAGCTGAT CCAGGACATG GAGCTGTGTG GTACCTCTGA GTTGTCTTG CTTGGGCTTC TACCTCTCTG ACATCACCT GACCTGGGAG TTGATGAGG AGGAGCTGAT CCAGGACATG GAGCTGTGTG	2200 766
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	AGACAGGCC TGCAGGGGAT GGAACCTTCC AGAAGTGGG ATCTGTGTG GTGCTCTCTG GGAAGGAGCA GTATTACACA TGCATGTGT ACCATCAGG AGACAGGCC TGCAGGGGAT GGAACCTTCC AGAAGTGGG ATCTGTGTG GTGCTCTCTG GGAAGGAGCA GTATTACACA TGCATGTGT ACCATCAGG	2300 866
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	GCTGCTGAG CCGCTCACC TGAGATGGG TAAGAGAGT GTGGGTGAG AGCTGGGCTC AGGGAAGAT GGAGCTTCTC GCAGACCTCT AGCTGTCTAG GCTGCTGAG CCGCTCACC TGAGATGGG TAAGAGAGT GTGGGTGAG AGCTGGGCTC AGGGAAGAT GGAGCTTCTC GCAGACCTCT AGCTGTCTAG	2400 895
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	GGCTGAGAC TGGGGTCAAT ACCCTCACT TCATTTCTG TACCTGTCT TCCACAGCC TCCTCCATCC ACTGTCTTCA ACATGGGAC GGTGTGTGT GGCTGAGAC TGGGGTCAAT ACCCTCACT TCATTTCTG TACCTGTCT TCCACAGCC TCCTCCATCC ACTGTCTTCA ACATGGGAC GGTGTGTGT	2500 939
HLA-A*2402/Kb genome HLA-A*2402/Kb cDNA	CTGTGTGTCT TTGGAGTGC AATAGTCACT GGAGTGTGG TGGCTTTTGT GATGAGATG AAGAGGAGAA ACACAGTAG GAAGGGCAG AGTCTGAGTT CTGTGTGTCT TTGGAGTGC AATAGTCACT GGAGTGTGG TGGCTTTTGT GATGAGATG AAGAGGAGAA ACACAGTAG GAAGGGCAG AGTCTGAGTT	2600 1015

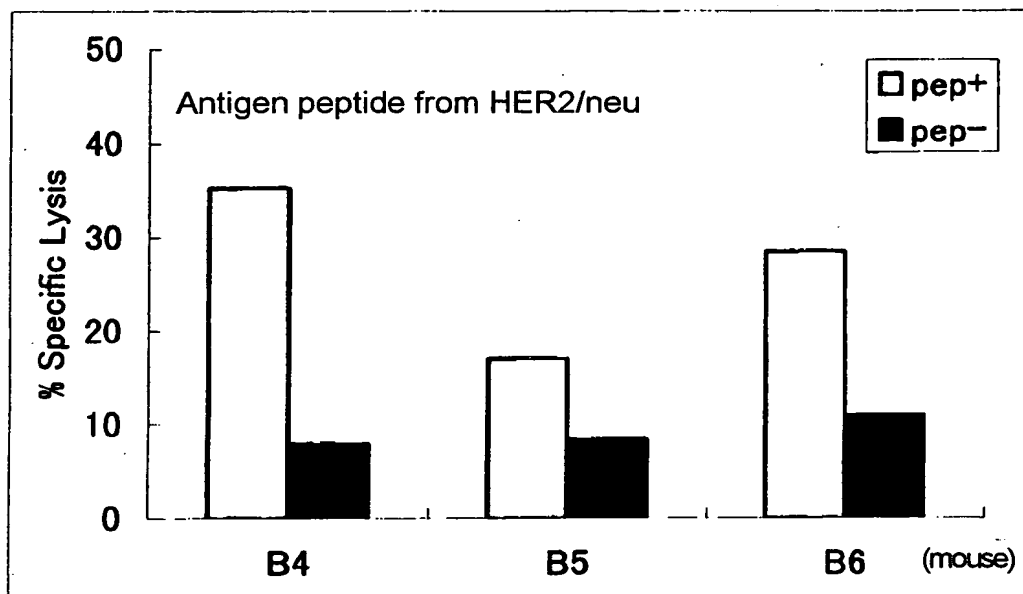
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Fig. 5

HLA-A2402/Kb genome	TTCTCTCAGC CTCCCTTACG GTGTGCTCTG CTATCAATG GGGACACAG GGCACCCCA CATTCTACT GTCTCTAAT GGTCTCTCTG TCAGTCTCTG	2700
HLA-A2402/Kb cDNA	-----	1015
HLA-A2402/Kb genome	GNACTTCCTA GTGTCAAGAT CTTCCTGGAA CTCTCACAGC TTTTCTCTTC ACAGTTGGAA AAGGAGGGGA CTATGCTCTG GCTTCAGTTT AGTGTGGGGA	2800
HLA-A2402/Kb cDNA	-----	1048
HLA-A2402/Kb genome	CAGAGTTGTC CTGGGACAT TGGAGTGAAG TTGGAGATGA TGGAGCTCTT GGGATCCAT ATATCTCTT CCAGAGAAAT CTCTAGGTG CCTGAGTTGT	2900
HLA-A2402/Kb cDNA	-----	1048
HLA-A2402/Kb genome	GCCATGAAAT GAATATGTAC ATATACATAT GCATATACAT TTGTTTGTGT TTACCTTAGC CTCCGAGACC TCTGATCTGT CTCTCCGAGA TTGTAAAGTT	3000
HLA-A2402/Kb cDNA	-----	1087
HLA-A2402/Kb genome	GACACTCTAG GGTCTGAATG GGGAGGGGCA ATGTGGACAT GATTGGGTTT CAGGAACCTC CAGATCCCC TGTGAGTGAG TGATGGGTG TTGGAATGTT	3100
HLA-A2402/Kb cDNA	-----	1087
HLA-A2402/Kb genome	GTCTTCACAG TGAATGGTCA TGAACCTCAT TCTCTAGCGT GAGACAGCT GCCTGGAGTG GACTTTGGTA CAGACATGT CTCTCTATAT CTCTGTGAC	3200
HLA-A2402/Kb cDNA	-----	1119
HLA-A2402/Kb genome	ATCCAGAGCC CTCAGTCTC TTATAGTCAAG TGCTGTGAGT TCCCTGTGAG CCTATGGACT CAATGTGAAG AACTGTGGAG CCAAGTCCAC CCTCTACAC	3300
HLA-A2402/Kb cDNA	-----	1119
HLA-A2402/Kb genome	CAGGACCCCTG TCCCTGCACT GCCTGTCTCT CCCTTCACCA GCCAACCTTG CTGGTTCCAGC CAACACTGA GGGACATCTG TAGCCTGTCA GCTCCATGCT	3400
HLA-A2402/Kb cDNA	-----	1119
HLA-A2402/Kb genome	ACCTTGACCT GCAACTCTC ACTTCCACAC TGAGATTAAT ATTGTGAATG TAACTTTGAT TGTATCTATC TTGACCTAGG CCTGATTTCT TGTAAATTC	3500
HLA-A2402/Kb cDNA	-----	1119
HLA-A2402/Kb genome	ATGGATTGAG AATGCTTAGA GGTTTTGTGT GTTTGTTTGA TTGATTGTGT TTTTGTGAAG AATTAATGAT AGATGAATAA ACTTCCAGAA TCTGGGTAC	3600
HLA-A2402/Kb cDNA	-----	1119
HLA-A2402/Kb genome	TATGCTGTGT GTATCTGTG GACAGAGATG AGACTGTAGC ACCTGAGTGT GACAGGGCT GTGCCGAGGT GGGCTCAGTT TGTCTTGTATC TGTGATGGGG	3700
HLA-A2402/Kb cDNA	-----	1119
HLA-A2402/Kb genome	CCACACCTCC ACTGTGTAC CTCTGGGCTC TGTTCCTCT ATCACTAGA GGCACATGCT GAGATTTGT GGTACAAAG ACACAGGAA GGCCTGAGCC	3800
HLA-A2402/Kb cDNA	-----	1119
HLA-A2402/Kb genome	TTGCCCTGTC CCCAGATTA TGAGCCCCA GGGCTAAAGA TCAGAGACTC GGAATTC	3857
HLA-A2402/Kb cDNA	-----	1119

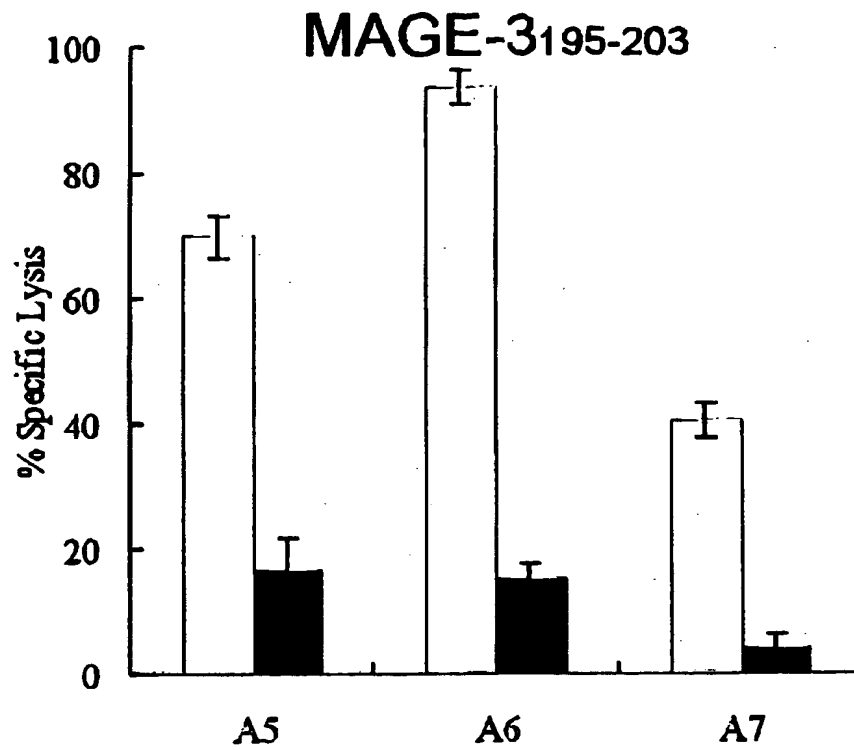
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Fig. 6



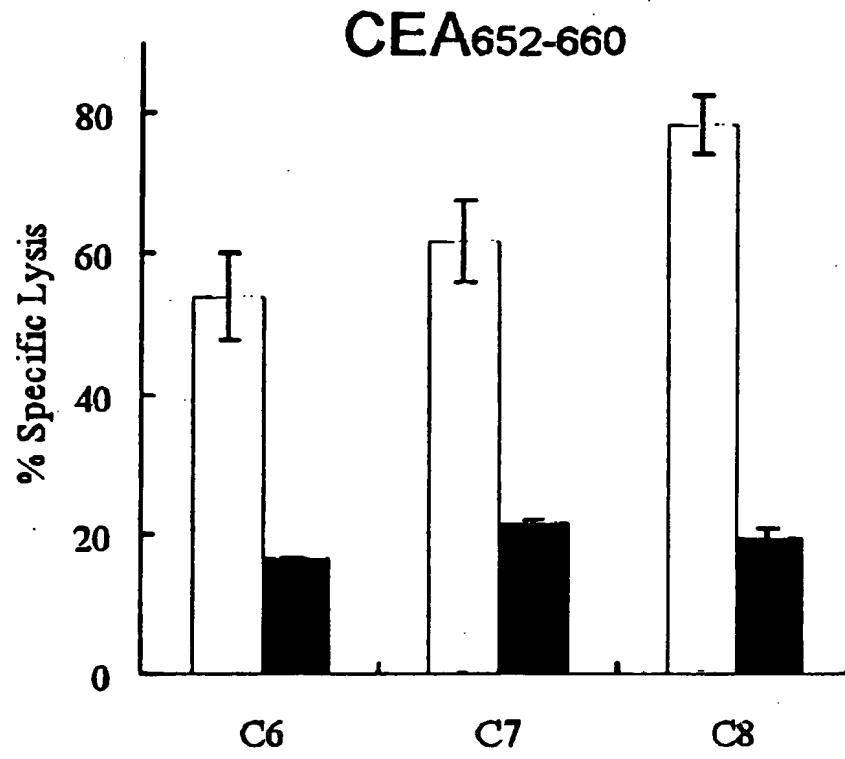
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Fig. 7



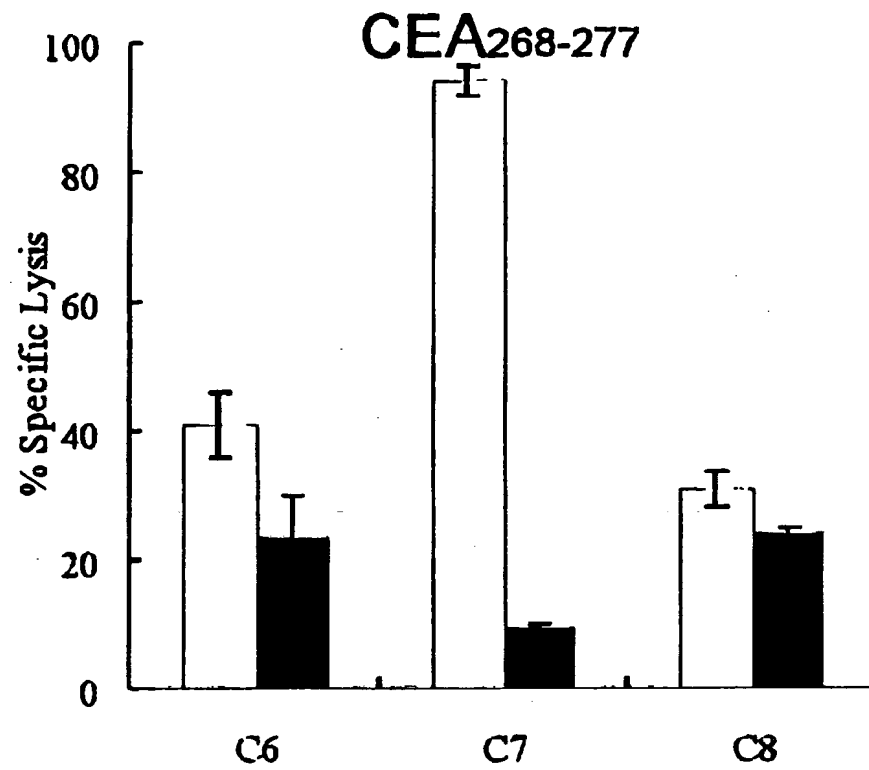
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Fig. 8



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Fig. 9



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Fig. 10

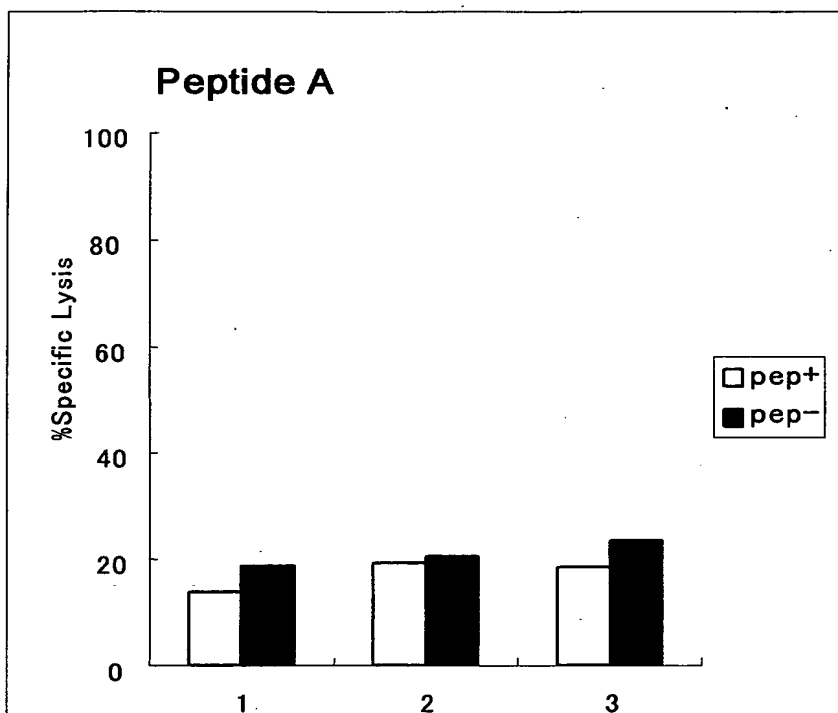
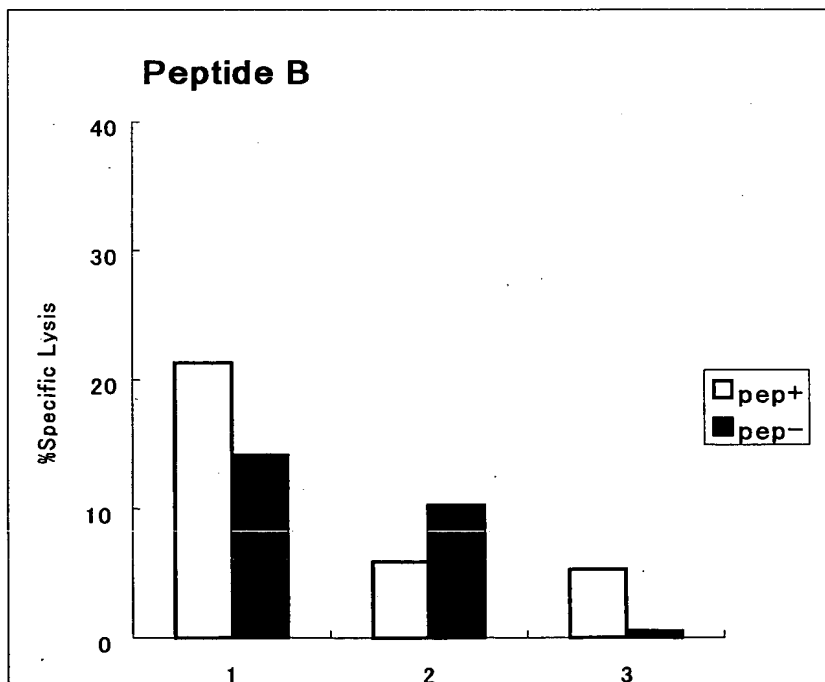


Fig. 11



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Fig. 12

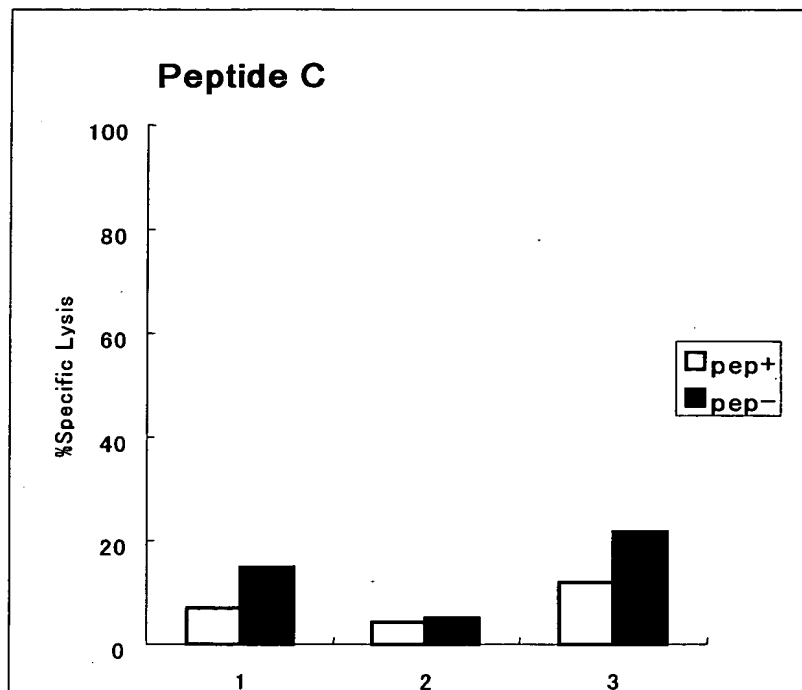
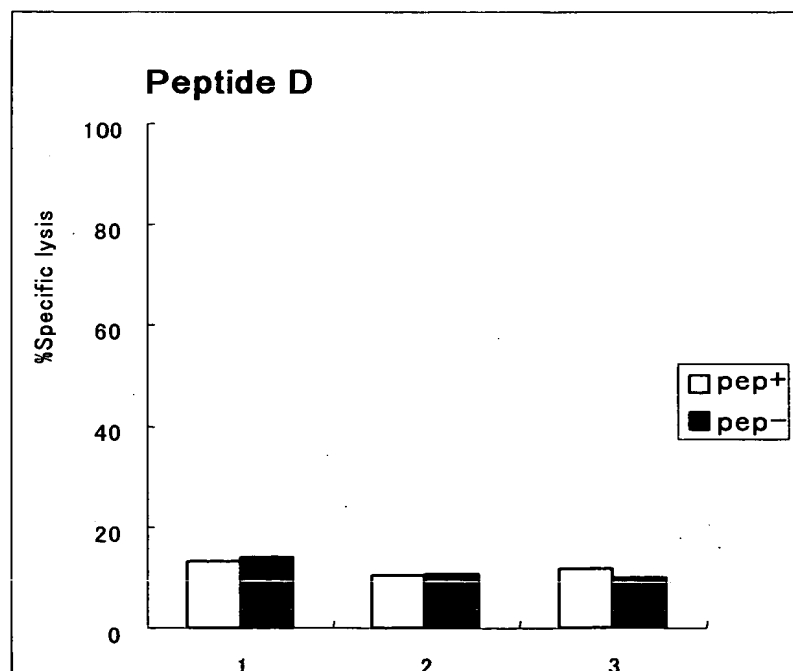


Fig. 13



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Fig. 14

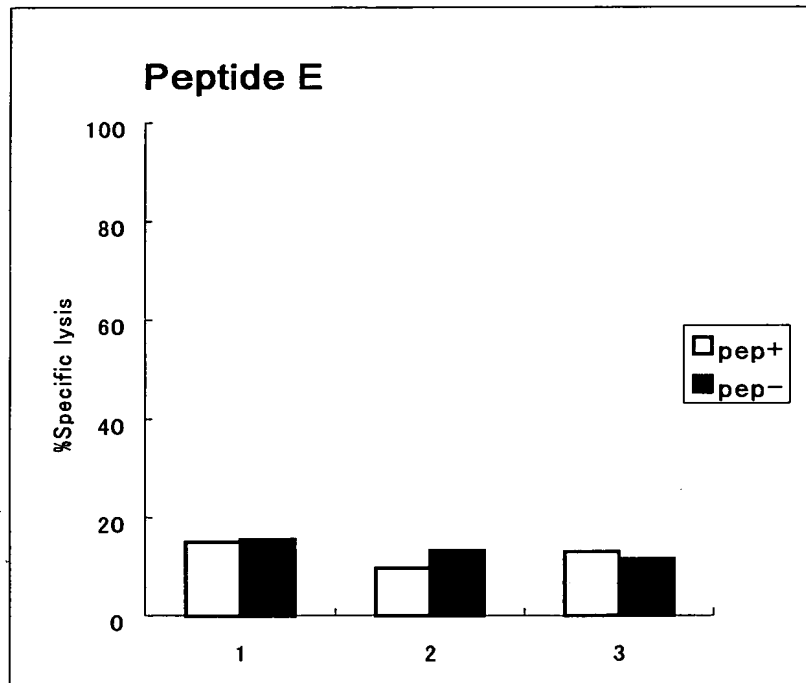
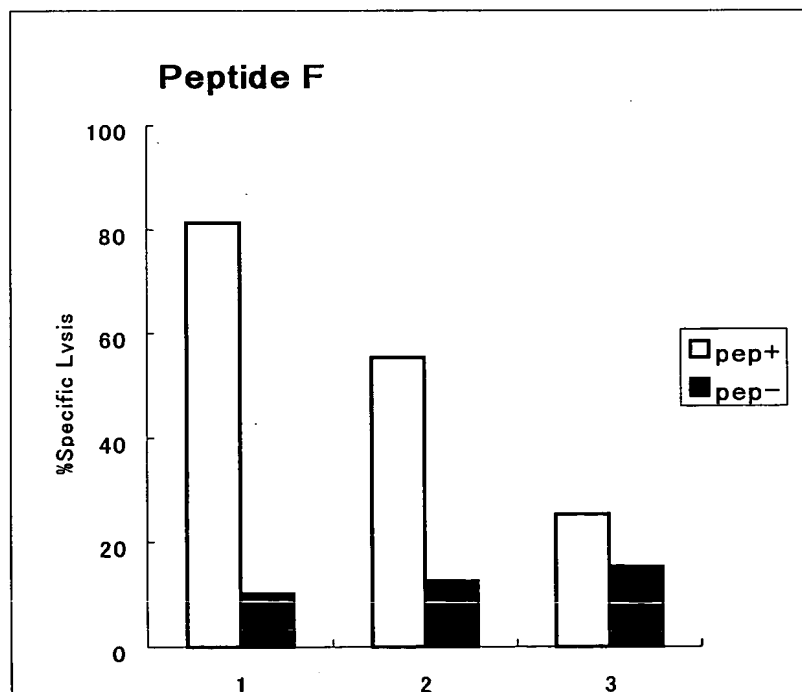


Fig. 15



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Fig. 16

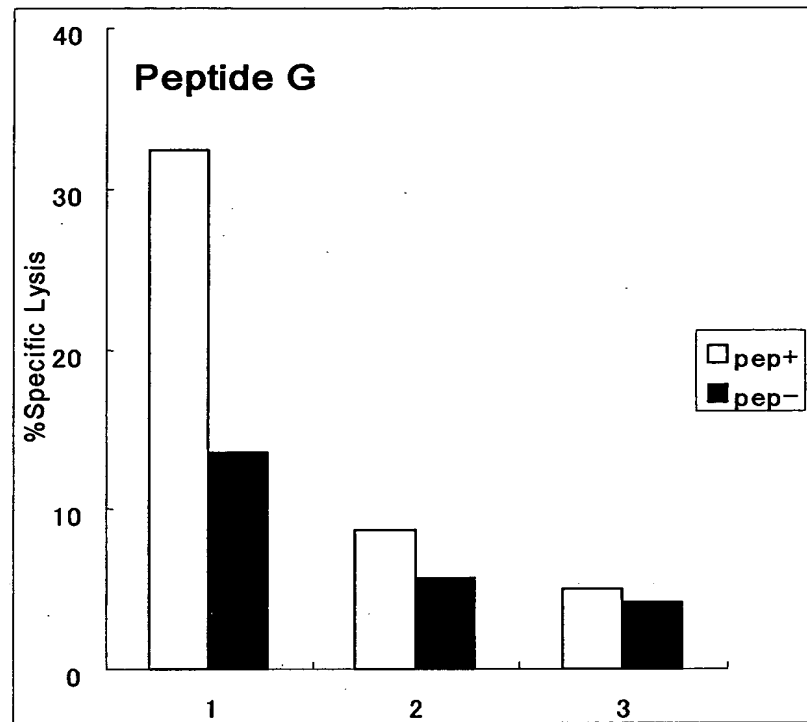
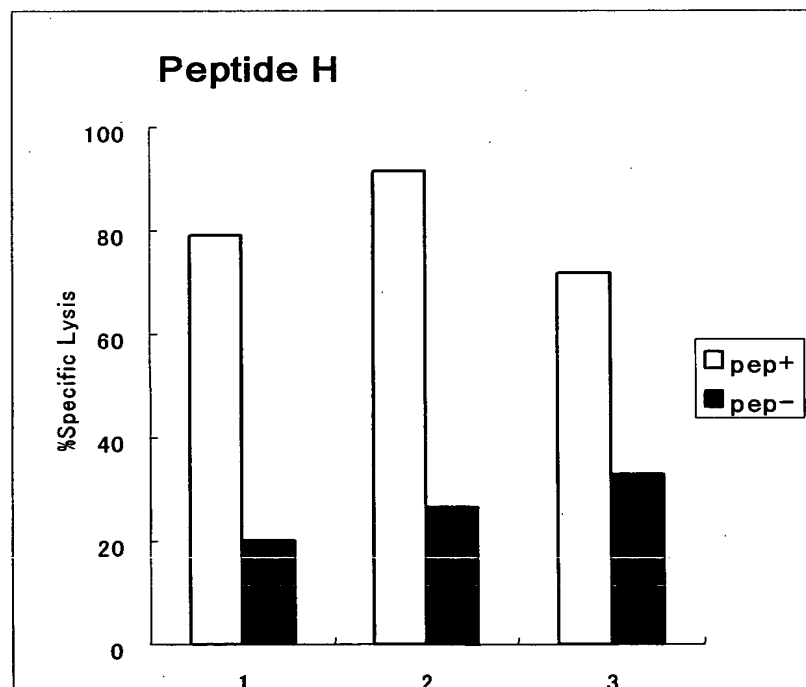
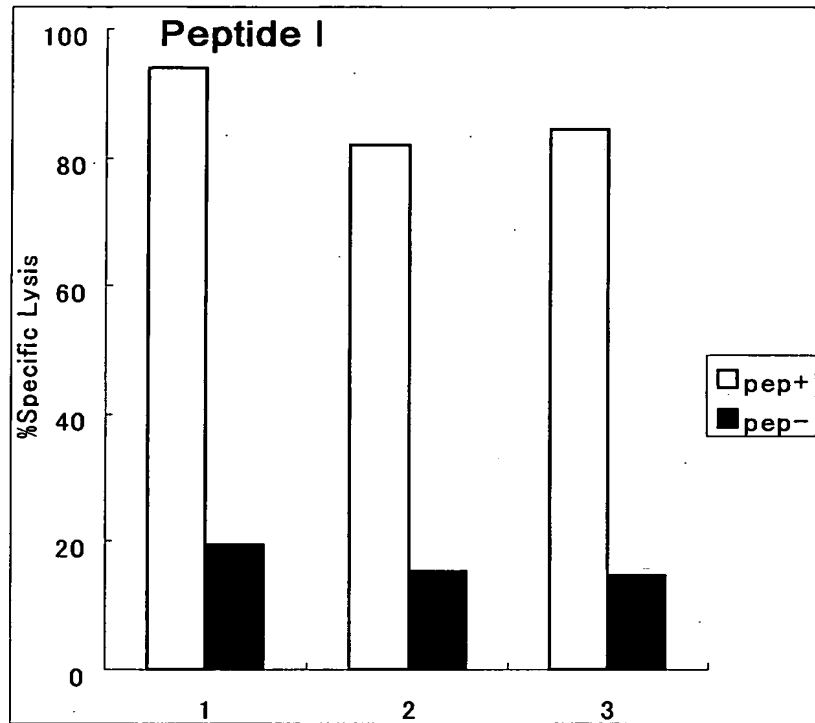


Fig. 17



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Fig. 18



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Fig. 19

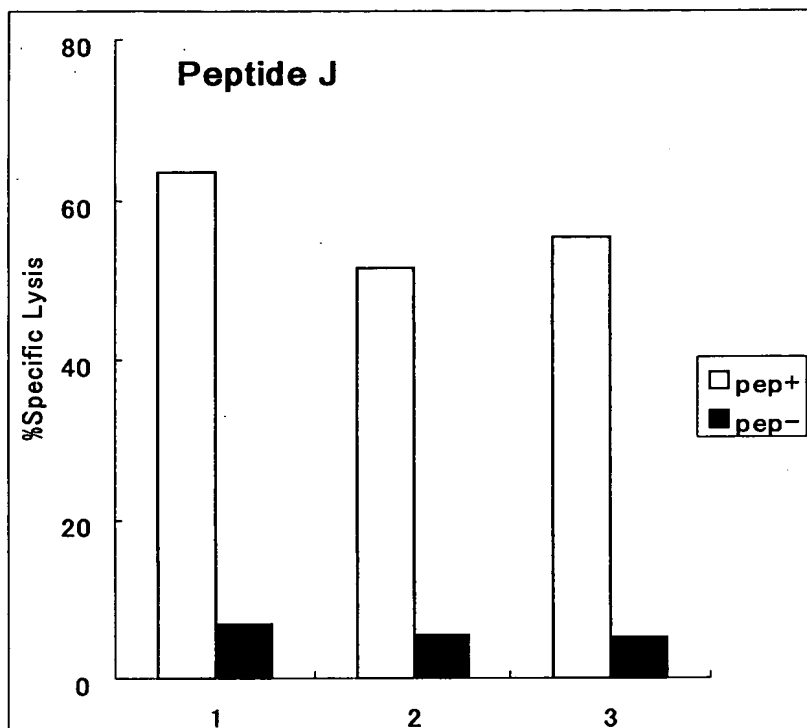
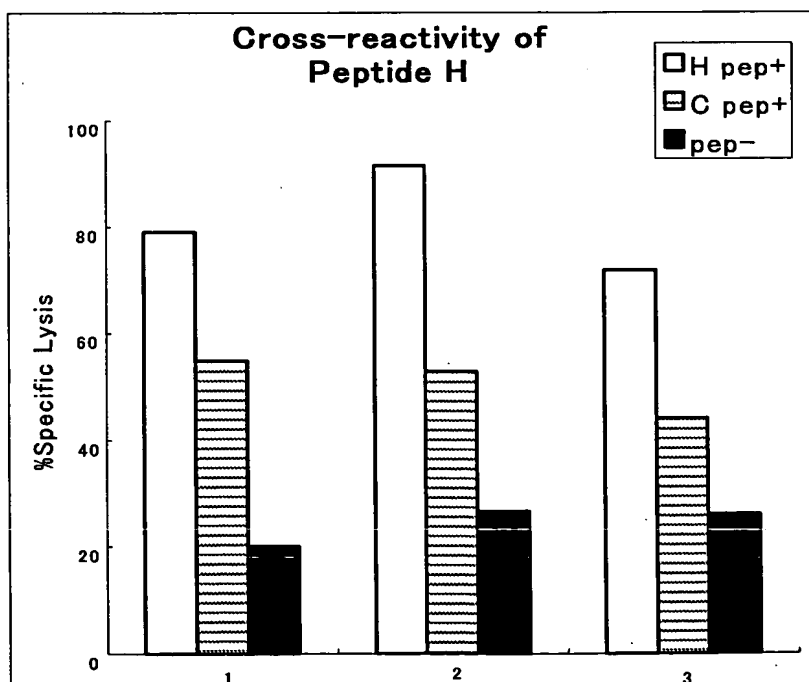


Fig. 20



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Fig. 21

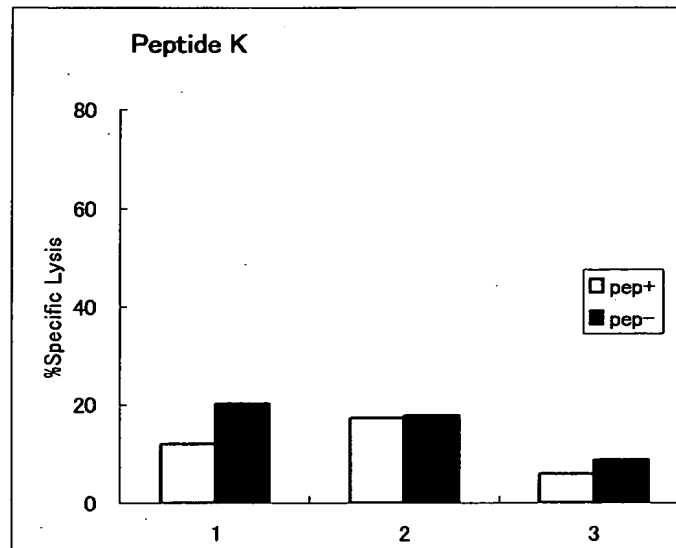
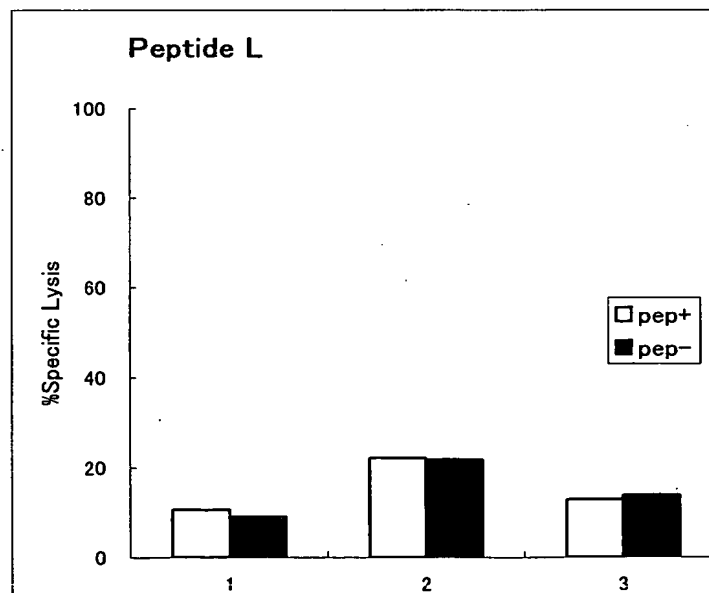
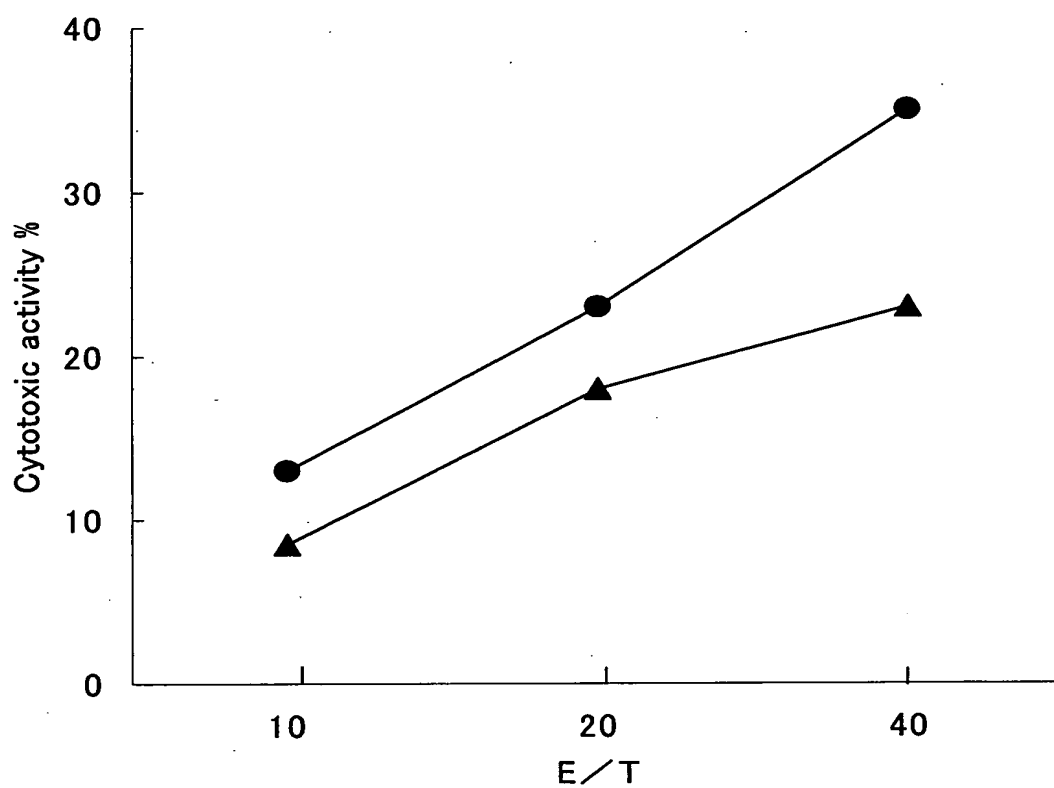


Fig. 22



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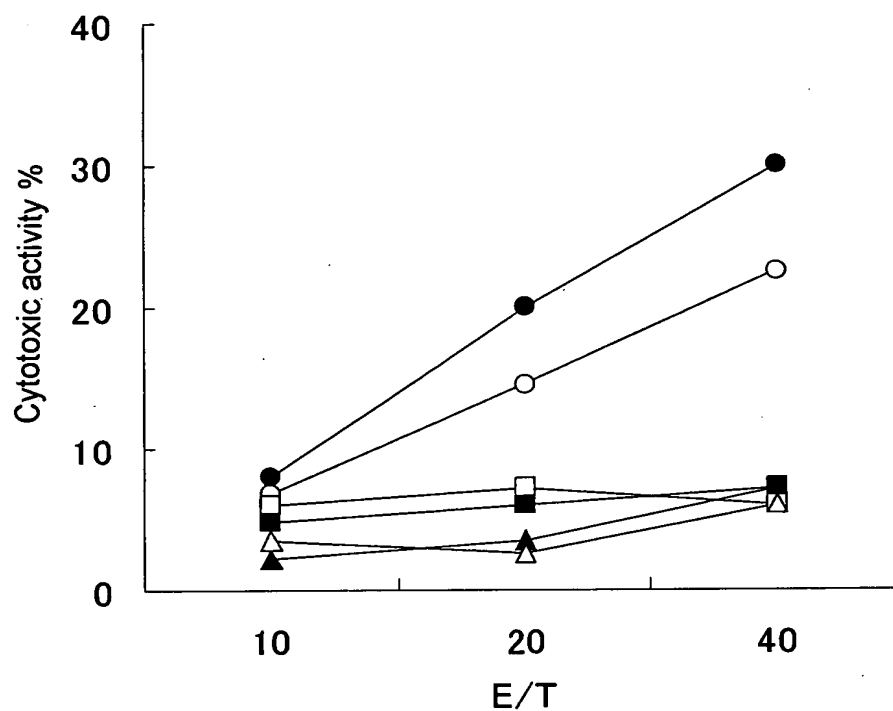
Fig. 23



- Effector cells stimulated with altered peptide
C1R-A*2402 target cells pulsed with natural peptide
- ▲ Effector cells stimulated with natural peptide
C1R-A*2402 target cells pulsed with natural peptide

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Fig. 24



- Effector cells: Altered peptide - stimulated
Target cells: RERF-LC-AI cells (WT1 positive, HLA-A2402 positive)
- ▲ Effector cells: Altered peptide - stimulated
Target cells: LK87 cells (WT1 positive, HLA-A2402 negative)
- Effector cells: Altered peptide - stimulated
Target cells: 11-18 cells (WT1 negative, HLA-A2402 positive)
- Effector cells: Natural peptide - stimulated
Target cells: RERF-LC-AI cells (WT1 positive HLA-A240 2 positive)
- △ Effector cells: Natural peptide - stimulated
Target cells: LK87 cells (WT1 positive, HLA-A2402 negative)
- Effector cells: Natural peptide - stimulated
Target cells: 11-18 cells (WT1 negative, HLA-A2402 positive)

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Fig. 25

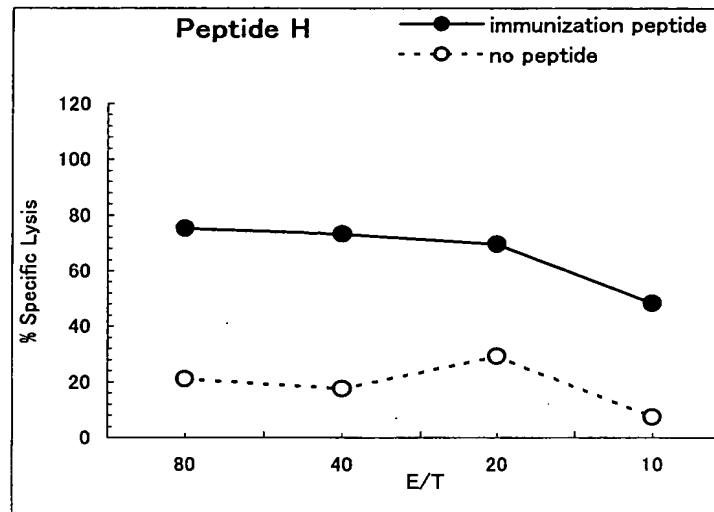
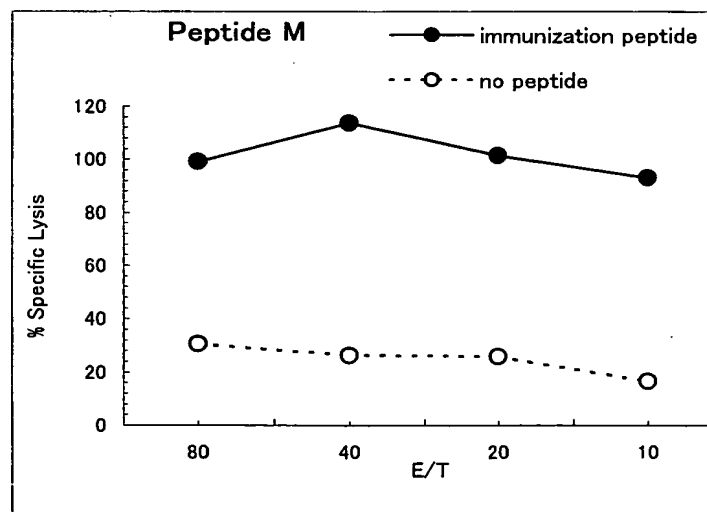


Fig. 26



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Fig. 27

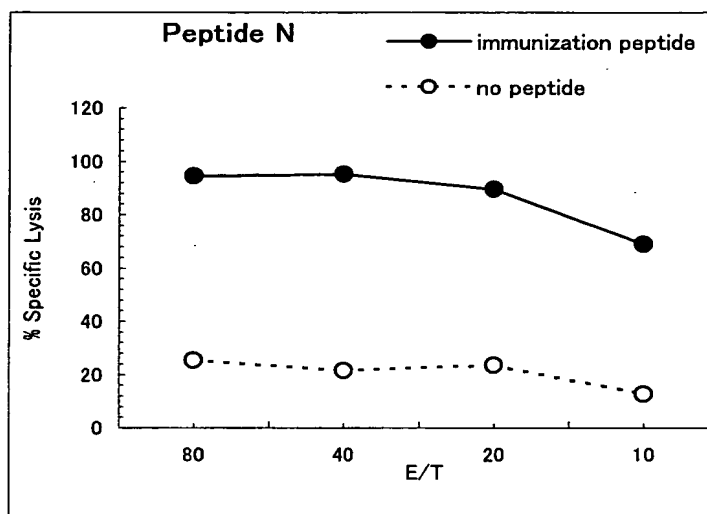
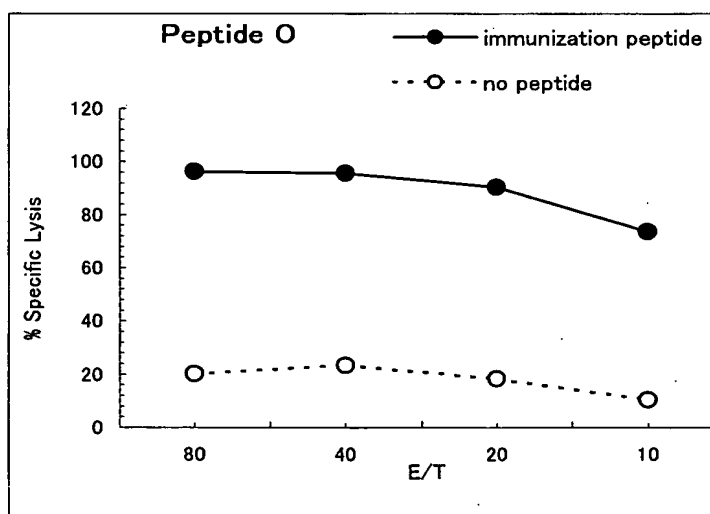


Fig. 28



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Fig. 29

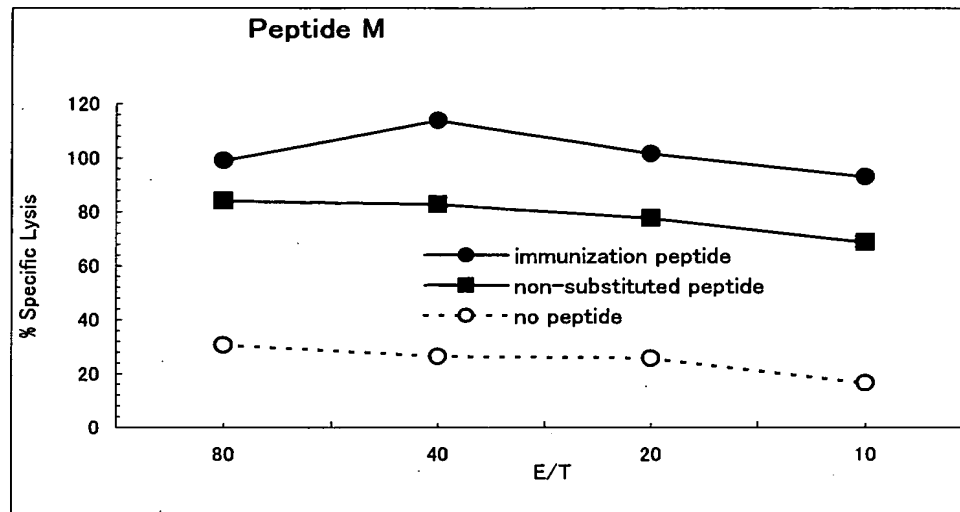


Fig. 30

